

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty

For receiving Office use only

International Application No. _____

International Filing Date _____

Name of receiving Office and "PCT International Application" _____

Applicant's or agent's file reference
(if desired) (12 characters maximum) 4505/WO/97+

Box No. I TITLE OF INVENTION WATER TREATMENT METHOD AND DEVICE	
Box No. II APPLICANT	
Name and address: ITZHAK, David 32 Rotem Street Omer 84965 Israel	<input checked="" type="checkbox"/> This person is also an inventor. Telephone No. Facsimile No. Teleprinter No.
State (i.e. country) of nationality: IL	State (i.e. country) of residence: IL
This person is applicant for the purposes of: <input checked="" type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: ARGAD Water Treatment Industries Ltd. P.O.Box 7 Atlit 30300 Israel	This person is: <input checked="" type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only
State (i.e. country) of nationality: IL	State (i.e. country) of residence: IL
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet	
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: LUZZATTO, Kfir LUZZATTO & LUZZATTO P.O.Box 5352 Beer-Sheva 84 152 Israel	Telephone No. (972-7) 6497-871 Facsimile No. (972-7) 6497-125 Teleprinter No.
<input type="checkbox"/> Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

Box No. V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

Regional Patent

- ☒ **AP** **ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ **EA** **Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP** **European Patent:** AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA** **OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (If other kind of protection or treatment desired, specify on dotted line):

- | | |
|---|---|
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> LU Luxembourg |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> LV Latvia |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> MD Republic of Moldova |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> MG Madagascar |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> BA Bosnia and Herzegovina | <input checked="" type="checkbox"/> MN Mongolia |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> BG Bulgaria | <input checked="" type="checkbox"/> MX Mexico |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> NO Norway |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> CU Cuba | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> SI Slovenia |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> SL Sierra Leone |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> GE Georgia | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> GH Ghana | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> GM Gambia | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> HR Croatia | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> ID Indonesia | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> IL Israel | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> IS Iceland | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> JP Japan | <input checked="" type="checkbox"/> YU Yugoslavia |
| <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> ZW Zimbabwe |
| <input checked="" type="checkbox"/> KG Kyrgyzstan | |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | |
| <input checked="" type="checkbox"/> KR Republic of Korea | |
| <input checked="" type="checkbox"/> KZ Kazakstan | |
| <input checked="" type="checkbox"/> LC Saint Lucia | |
| <input checked="" type="checkbox"/> LK Sri Lanka | |
| <input checked="" type="checkbox"/> LR Liberia | |
| <input checked="" type="checkbox"/> LS Lesotho | |
| <input checked="" type="checkbox"/> LT Lithuania | |

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet:

☐
☐
☐

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

See Notes to the request form

Supplemental Box *If the supplemental Box is not used, this sheet need not be included in the request.*

Continuation of Box No. IV

LUZZATTO, Edgar

LUZZATTO, Esther

FUERST, Zadok

PYERNIK, Moshe

MANZUROLA, Emanuel

PRICE, Eyal

SHALEV, Ronit

P.O.Box 5352

Beer-Sheva 84 152

Israel

Box No. VI PRIORITY CLAIMFurther priority claims are indicated in the Supplemental Box ☐

The priority of the following earlier application(s) is hereby claimed:

Country (in which, of for which the application was filed)	Filing Date (day/month/year)	Application No.	Office of filing (only for regional or international application)
item(1) IL	01 October 1997 (01.10.97)	121880	
item(2)			
item(3)			

Mark the following check-box if the certified copy of the earlier application is to be issued by the Office which for the purposes of the present international application is the receiving Office (a fee may be required):

☒ The receiving Office is hereby requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): (1)
Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (If two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA / EP

Earlier Search Fill in where a search (international, international-type or ther) by the International Searching Authority has already been carried out or requested and the Authority is now requested to base the international search, to the extent possible, on the results of that earlier search. Identify such search or request either by reference to the relevant application (or the translation thereof) or by reference to the search request:

Country (or regional Office):

Date (day/month/year):

Number:

Box No. VIII CHECK LIST

This international application contains the following number of sheets:

- | | | | |
|----------------|---|----|--------|
| 1. request | : | 4 | sheets |
| 2. description | : | 12 | sheets |
| 3. claims | : | 3 | sheets |
| 4. abstract | : | 1 | sheets |
| 5. drawings: | : | 1 | sheets |

Total : 21 sheets

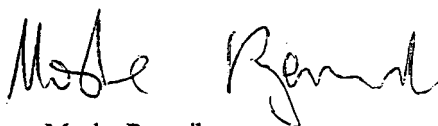
This International application is accompanied

- | | |
|---|--|
| 1. <input type="checkbox"/> separate signed power of attorney | 5. <input checked="" type="checkbox"/> fee calculation sheet |
| 2. <input checked="" type="checkbox"/> copy of general power of attorney | 6. <input type="checkbox"/> separate indications concerning deposited microorganisms |
| 3. <input type="checkbox"/> statement explaining lack of signature | 7. <input type="checkbox"/> nucleotide and/or amino acid sequence listing (diskette) |
| 4. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): | 8. <input type="checkbox"/> other (specify) |

Figure No. _____ of the drawings (if any) should accompany the abstract when it is published.

Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request)



Moshe Pyernik

For receiving Office use only

1. Date of actual receipt of the purported international application:	2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority specified by the applicant: ISA/	
6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid	

For International Bureau use only

Date of receipt of the record

copy by the International Bureau:

PCT

WIPO

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 4505/WO/97+	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/IL98/00453	International filing date (day/month/year) 17/09/1998	Priority date (day/month/year) 01/10/1997
International Patent Classification (IPC) or national classification and IPC C02F1/46		
Applicant ITZHAK, David et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 6 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 26/04/1999	Date of completion of this report 21 00 00
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Assogna, R Telephone No. +49 89 2399 8354 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IL98/00453

1. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

Description, pages:

1-12 as originally filed

Claims, No.:

1-20 as originally filed

Drawings, sheets:

1 as originally filed

2. The amendments have resulted in the cancellation of:

☐ the description, pages:

☐ the claims, Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IL98/00453

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	6,8,9,11,12,14,19,20
	No:	Claims	1,2,3,4,5,7,10,13,15,16,17,18
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-20
Industrial applicability (IA)	Yes:	Claims	1-20
	No:	Claims	

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1 US-A-4048030
D2 EP-A-175123
D3 US-A-4384943

1. The claimed subject-matter **as far as the present text can be understood (because of the unclarity objections - cf. item VIII)** does not seem novel or involving an inventive step for the followings:
 - 1.1 It **seems** that the subject-matter of independent claims 1 and 10 is already known at least from the disclosures of D1 (cf. column 2, line 21 to column 8, line 68) or D2 (cf. claim 1; page 3, line 16 to page 7, line 4 and page 8, lines 9-11) or from D3 (cf. column 1, line 7 to column 9, line 57).
Therefore, the subject-matter of claims 1 and 10 does not **seem** novel.
2. The features of dependent claims 2, 3, 7, 16, 17 and 18 **seem** to be known from D1 (cf. column 2, line 21 to column 8, line 68). The features of dependent claims 4 and 5 **seem** to be known from D2 (cf. claim 1; page 3, line 16 to page 7, line 4 and page 8, lines 9-11). The features of dependent claims 2, 3, 4, 5, 7, 13, 15 and 18 **seem** to be known from D3 (cf. column 1, line 7 to column 9, line 57).
Therefore, the subject-matter of claims 2, 3, 4, 5, 7, 13, 15, 16, 17 and 18 does not **seem** to be novel.
3. Dependent claims 6, 8, 9, 11, 12, 14 and 19 do not **seem** to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of an inventive step, because they are in no way surprising.
4. The cooling tower apparatus comprising a cooling tower and an electrolytic cell operated by a direct current source defined in claim 20 seems to be not disclosed

in any of the cited documents. However, the use of an electrolytic cell operated by a direct current source in a cooling tower seems to be in no way surprising taking into account the disclosure of D1, D2 or D3. Therefore, the subject matter of claim 20 does not appear to involve an inventive step.

Re Item VII

Certain defects in the international application

1. The units of measure "inch" employed on pages 8 and 9 is not additionally expressed in terms of the units stipulated by Rule 10.1/(a)/and/(b) PCT.
2. The expression " $1A/5m^3/hour$ " on page 3 does not seem to be clear.
3. The vague and imprecise statement in the description on page 12, last paragraph (spirit of the invention) implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, PCT/GL/3 III, 4.3a).

Re Item VIII

Certain observations on the international application

1. Claims 1, 2, 10 and 20 **do not meet the requirements of Article 6 PCT** in that the matter for which protection is sought **is not clearly defined**. The claims attempt to define the subject-matter in terms of the result to be achieved: in claim 1 "the magnitude of the electrical direct current and the flow-rate of the liquid is such that"; in claim 2 "the current is such..."; in claim 10 "being adapted to..."; in claim 20 "the cooling tower being adapted to...".
The technical features necessary for achieving this results being not disclosed in the claims, **the claimed subject-matter cannot be differentiated from the cited prior art.**

INTERNATIONAL PRELIMINARY

International application No. PCT/IL98/00453

EXAMINATION REPORT - SEPARATE SHEET

method of using the apparatus rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of
international preliminary examination according to the Patent Cooperation Treaty.

For International Preliminary Examining Authority use only

Identification of IPEA		Date of receipt of DEMAND	
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		Applicant's or agent's file reference 4505/WO/97+	
International application No. PCT/IL98/00453	International filing date (day/month/year) 17 September 1998 (17.09.98)	(Earliest) Priority date (day/month/year) 01 October 1997 (01.10.97)	
Title of invention WATER TREATMENT METHOD AND DEVICE			
Box No. II APPLICANT(S)			
Name and address: ITZHAK, David 32 Rotem Street Omer 84965 Israel		Telephone No.:	
		Facsimile No.:	
		Teleprinter No.:	
State (i.e. country) of nationality: IL		State (i.e. country) of residence: IL	
Name and address: ARGAD Water Treatment Industries Ltd. P.O. Box 7 Atlit 30300 Israel			
State (i.e. country) of nationality: IL		State (i.e. country) of residence: IL	
Name and address:			
State (i.e. country) of nationality:		State (i.e. country) of residence:	
<input type="checkbox"/> Further applicants are indicated on a continuation sheet.			

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCEThe following person is ☒ agent ☐ common representativeand ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address:

LUZZATTO, Kfir; LUZZATTO, Edgar; LUZZATTO, Esther; HACKMEY, Michal,
 FUERST, Zadok; PYERNIK, Moshe; MANZUROLA, Emanuel; MORAG, Tamar;
 SERUYA, Yehuda; PRICE, Eyal; SHALEV, Ronit; HACKMEY, Miriam
 LUZZATTO & LUZZATTO
 P.O.Box 5352
 Beer-Sheva 84 152
 Israel

Telephone No.:

(972-7) 6497-871

Facsimile No.:

(972-7) 6497-125

Teleprinter No.:

☐ Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.**Box No. IV STATEMENT CONCERNING AMENDMENTS**

The applicant wishes the International Preliminary Examining Authority*

(i) ☐ to start the international preliminary examination on the basis of the international application as originally filed.(ii) ☐ to take into account the amendments under Article 34 of☐ the description (amendments attached).☐ the claims (amendments attached).☐ the drawings (amendments attached).(iii) ☒ to take into account any amendments of the claims under Article 19 filed with the International Bureau (a copy is attached).(iv) ☐ to disregard any amendments of the claims made under Article 19 and to consider them as reversed.(v) ☐ to postpone the start of the international preliminary examination until the expiration of 20 months from the priority date unless that Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)).

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments to the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Box No. V ELECTION OF STATES☒ The applicant hereby elects all eligible States except

Box No. VI CHECK LIST

The demand is accompanied by the following documents for the purposes of international preliminary examination:

- | | | | |
|--|---|----------|--|
| 1. amendments under Article 34 | | | |
| description | : | sheets | |
| claims | : | sheets | |
| drawings | : | sheets | |
| 2. letter accompanying amendments under Article 34 | : | sheets | |
| 3. copy of amendments under Article 19 | : | 1 sheets | |
| 4. copy of statement under Article 19 | : | 1 sheets | |
| 5. other (<i>specify</i>): | : | sheets | |

For international Preliminary
Examining Authority use only

received

not received

☐☐☐☐☐☐☐☐☐☐☐☐☐☐

The demand is also accompanied by the item(s) marked below:

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> separate signed power of attorney | 4. <input checked="" type="checkbox"/> fee calculation sheet |
| 2. <input checked="" type="checkbox"/> copy of general power of attorney | 5. <input checked="" type="checkbox"/> other (<i>specify</i>): notification of bank transfer |
| 3. <input type="checkbox"/> statement explaining lack of signature | |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE


Esther Luzzatto

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

☐

The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:

PATENT COOPERATION TREATY

**NOTIFICATION CONCERNING
THE FILING OF AMENDMENTS OF THE CLAIMS**

(PCT Administrative Instructions, Section 417)

From the INTERNATIONAL BUREAU

To:

LUZZATTO, Kfir
Luzzatto & Luzzatto
P.O. Box 5352
84152 Beer-Sheva
ISRAËL

Date of mailing (day/month/year)	22 March 1999 (22.03.99)
Applicant's or agent's file reference	4505/WO/97 +
International application No.	PCT/IL98/00453
Applicant	ITZHAK, David et al
IMPORTANT NOTIFICATION	
International filing date (day/month/year)	17 September 1998 (17.09.98)

1. The applicant is hereby notified that amendments to the claims under Article 19 were received by the International Bureau on:

15 March 1999 (15.03.99)

2. This date is within the time limit under Rule 46.1.

Consequently, the international publication of the international application will contain the amended claims according to Rule 48.2(f), (h) and (i).

3. The applicant is reminded that the international application (description, claims and drawings) may be amended during the international preliminary examination under Chapter II, according to Article 34, and in any case, before each of the designated Offices, according to Article 28 and Rule 52, or before each of the elected Offices, according to Article 41 and Rule 78.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Yolaine CUSSAC

Telephone No.: (41-22) 338.83.38

LUZZATTO & LUZZATTO
Patent Attorneys

Dr. EDGAR LUZZATTO
Dr. KFIR LUZZATTO
Dr. ESTHER LUZZATTO
MICHAL HACKMEY

Mailing Address: P.O.Box 5352
Beer-Sheva 84 152, Israel

Head Office: Omer Industrial Park
84965 Omer, Israel
☎ (972-7) 6497 871;
Fax (972-7) 6497125 or (972-7) 6493 430

Dr. Emanuel Manzurola
Zadok Fuerst
Moshe Pyernik
Tamar Morag

E-mail: L_L@LUZZATTO.CO.IL
<http://www.luzzatto.co.il>

Jerusalem Office: Arledan House
31 Haneviim St., Jerusalem, 95103
☎ (972-2) 6241242; Fax: (972-2) 6244144

LEGAL DEPARTMENT
Eyal Price, LL.B., LL.M.
Ronit Shalev, LL.B.
Miriam Hackmey, LL.B.

Tel-Aviv Office: Twin Towers 1, 2nd Floor
33 Jabotinsky St., Ramat-Gan 52511
☎ (972-3) 6133827; Fax: (972-3) 6133829

Haifa Office: Haifa Anot Building
157 Jaffa Street, Haifa 35251
☎ (972-4) 8371701; Fax: (972-4) 8362096

Omer, March 15, 1999

BY FAX and COURIER

International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20
Switzerland

International Patent Application No. PCT/IL98/00453
Our Ref: 4505/WO/97+

Dear Sirs:

The Applicant hereby submits amendments under Article 19 . Enclosed please find new page 16, containing new claim 21. Original claims 1-20 remain unchanged.

Very sincerely yours,

Moshe Pyernik

Moshe Pyernik
LUZZATTO & LUZZATTO
[0persons/moshe/letters/4505-wol]

21. A method according to claim 1, wherein the treatment is the removal or control of turbidity.

PCT

From the INTERNATIONAL BUREAU

NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

LUZZATTO, Kfir
Luzzatto & Luzzatto
P.O. Box 5352
84152 Beer-Sheva
ISRAËL

Date of mailing (day/month/year)

08 April 1999 (08.04.99)

Applicant's or agent's file reference

4505/WO/97+

IMPORTANT NOTICE

International application No.

PCT/IL98/00453

International filing date (day/month/year)

17 September 1998 (17.09.98)

Priority date (day/month/year)

01 October 1997 (01.10.97)

Applicant

ITZHAK, David et al

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

AU,BR,CN,EP,IL,JP,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AL,AM,AP,AT,AZ,BA,BB,BG,BY,CA,CH,CU,CZ,DE,DK,EA,EE,ES,FI,GB,GE,GH,GM,HR,HU,ID,IS,
KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,
SK,SL,TJ,TM,TR,TT,UA,UG,UZ,VN,YU,ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 08 April 1999 (08.04.99) under No. WO 99/16715

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

COMMUNICATION IN CASES FOR WHICH
NO OTHER FORM IS APPLICABLE

From the INTERNATIONAL BUREAU

To:

LUZZATTO, Kfir
Luzzatto & Luzzatto
P.O. Box 5352
84152 Beer-Sheva
ISRAEL

Date of mailing (<i>day/month/year</i>) 07 April 2000 (07.04.00)	
Applicant's or agent's file reference 4505/WO/97+	REPLY DUE see paragraph 1 below
International application No. PCT/IL98/00453	International filing date (<i>day/month/year</i>) 17 September 1998 (17.09.98)
Applicant ITZHAK, David	

1. ☐ REPLY DUE within _____ months/days from the above date of mailing
- ☐ NO REPLY DUE, however, see below
- ☒ IMPORTANT COMMUNICATION
- ☐ INFORMATION ONLY

2. COMMUNICATION:

It has been brought to the attention of the International Bureau that, in respect of the above-mentioned international application, the international publication No. WO 99/16715 contained the following mistake: new claim 21 on new page 16, as amended under Article 19 on 15 March 1999 (15.03.99), has been omitted.

A corrected version of the corresponding PCT pamphlet will be published as soon as possible and the International Bureau apologizes for any inconvenience caused.

A copy of this notification has been sent to the receiving Office (RO/IL) and to the elected Offices.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yolaine CUSSAC
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 22 June 1999 (22.06.99)	
International application No. PCT/IL98/00453	Applicant's or agent's file reference 4505/WO/97+
International filing date (day/month/year) 17 September 1998 (17.09.98)	Priority date (day/month/year) 01 October 1997 (01.10.97)
Applicant ITZHAK, David	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

26 April 1999 (26.04.99)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer C. Carrié
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

INTERNATIONAL COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4505/W0/97+	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/IL 98/00453	International filing date (day/month/year) 17/09/1998	(Earliest) Priority Date (day/month/year) 01/10/1997
Applicant ITZHAK, David et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a **nucleotide and/or amino acid sequence listing** and the international search was carried out on the basis of the sequence listing
 - ☐ filed with the international application.
 - ☐ furnished by the applicant separately from the international application,
 - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - ☐ Transcribed by this Authority
4. With regard to the **title**, ☒ the text is approved as submitted by the applicant
 - ☐ the text has been established by this Authority to read as follows:
5. With regard to the **abstract**,
 - ☐ the text is approved as submitted by the applicant
 - ☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.
6. The figure of the **drawings** to be published with the abstract is:
 - Figure No. 1 ☐ as suggested by the applicant. ☐ None of the figures.
 - ☒ because the applicant failed to suggest a figure.
 - ☐ because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL 98/00453

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A method of treatment of aqueous media comprises applying to the aqueous medium in an electrolytic cell (I) an electrical direct current of a magnitude and at a flow-rate of the liquid in said electrolytic cell such that a combined effect of scale removing and disinfecting is achieved.